

Application No. 08/962,362

SUMMARY OF THE CLAIMS

A detailed listing of all claims that are, or were, in the present application, irrespective of whether the claim(s) remains under examination in the application are presented below. The claims are presented in ascending order and each includes one status identifier. Those claims not cancelled or withdrawn but amended by the current amendment utilize the following notations for amendment: 1. deleted matter is shown by strikethrough for six or more characters and double brackets for five or less characters; and 2. added matter is shown by underlining.

1. (Previously Presented) A display device comprising phosphor particles having an average diameter less than about 95 nm and wherein the phosphor particles comprise a first collection of particles having a diameter distribution such that at least about 95 percent of the particles have a diameter greater than about 40 percent of the average diameter and less than about 160 percent of the average diameter and the phosphor particles comprising a metal oxide.
2. (Previously Presented) The display device of claim 1 wherein the phosphor particles comprise a metal compound selected from the group consisting of ZnO, TiO₂ and Y₂O₃.
3. (Original) The display device of claim 2 wherein the metal compound is ZnO.
4. (Original) The display device of claim 1 wherein the phosphor particles have an average diameter from about 5 nm to about 50 nm.
5. (Previously Presented) The display device of claim 1 wherein the phosphor particles have a diameter distribution such that at least about 95 percent of the particles have a diameter

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greater than about 60 percent of the average diameter and less than about 140 percent of the average diameter.

6. (Original) The display device of claim 1 wherein the light emission follows low velocity electron excitation.

7-20. (Canceled)

20. (Previously Presented) The display device of claim 1 wherein the phosphor particles further comprise a second collection of particles, the second collection of particles having a diameter distribution such that at least about 95 percent of the particles have a diameter greater than about 40 percent of the average diameter and less than about 160 percent of the average diameter.

21. (Previously Presented) The display device of claim 1 wherein the phosphor particles are in contact with an anode.

22. (Previously Presented) The display device of claim 1 further comprising a liquid crystal layer.

23. (Previously Presented) The display device of claim 1 further comprising a partially light transparent substrate.

24. (Previously Presented) The display device of claim 1 further comprising a transparent electrode comprising indium tin oxide.

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25. (Previously Presented) The display device of claim 1 further comprising an electrode to guide the electrons from the cathode to the anode.

26. (Previously Presented) The display device of claim 1 wherein the display is an electroluminescent display.

27. (Previously Presented) The display device of claim 1 wherein the device is a field emission device with the phosphor particles located between an anode and cathode.

28. (Previously Presented) The display device of claim 27 comprising a plurality of anodes and cathodes where each electrode pair forms an addressable pixel.

29. (Previously Presented) The display device of claim 1 wherein the phosphor particles are roughly spherical.

30. (Previously Presented) The display device of claim 1 wherein the phosphor particles are excitable by low velocity electrons.

31. (Canceled)

32. (Previously Presented) A display device comprising a collection of phosphor particles having an average diameter from about 15 nm to about 100 nm and having a diameter distribution such that at least about 95 percent of the particles have a diameter greater than about 60 percent of the average diameter and less than about 140 percent of the average diameter.

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33. (Previously Presented) The display device of claim 32 wherein the phosphor particles comprise a metal compound selected from the group consisting of ZnO, ZnS, TiO₂ and Y₂O₃.

34. (Previously Presented) The display device of claim 1 wherein the phosphor particles are roughly spherical.